

Generator Set Data Sheet Model: C2000 D5 Frequency: 50

Fuel Type: Diesel Emissions Level: Non Regulated

Exhaust Emission Data Sheet:	EDS-269
Measured Sound Performance Data Sheet:	MCP-109
Measured Cooling Performance Data Sheet:	MCP-109
Prototype Test Summary Data Sheet:	PTS-255
Standard Set-Mounted Radiator Cooling Outline:	500-3947
Optional Set-Mounted Radiator Cooling Outline:	500-3948
Optional Heat Exchanger Cooling Outline:	500-3946
Optional Remote Radiator Cooling Outline:	500-3945

	Standby			Prime				Continuous	
Fuel Consumption		kW ((kVA)			kW (kVA)		kW (kVA)
Ratings		1650 (2063)		1500 (1875)				1200 (1500)	
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full	Full
US gph	30	54	77	104	29	49	71	94	75
L/hr	119	203	292	393	111	187	267	355	283

Fueine	Standby	Prime	Continuous	
Engine	Rating Rating Rating			
Engine Manufacturer	Cummins			
Engine Model		QSK60-G3		
Configuration		t Iron, 60°V 16 cyl		
Aspiration		and Low Tempera		
Gross Engine Power Output, kWm (bhp)	1789 (2399)	1614 (2165)	1304 (1749)	
BMEP at Set Rated Load, kPa (psi)	2386 (346)	2158 (313)	1731 (251)	
Bore, mm (in.)		159 (6.25)		
Stroke, mm (in.)		190 (7.48)		
Rated Speed, rpm		1500		
Piston Speed, m/s (ft/min)		9.5 (1869)		
Compression Ratio		14.5:1		
Lube Oil Capacity, L (qt)	280 (296)	397 (420)		
Overspeed Limit, rpm	1850 ±50			
Regenerative Power, kW	146			
Fuel Flow				
Maximum Fuel Flow, L/hr (US gph)	1893 (500)			
Maximum Fuel Inlet Restriction, kPa (in. Hg)		8.4 (2.5)		
Maximum Fuel Inlet Temperature, °C (°F)		71 (160)		
Air				
Combustion Air, m³/min (scfm)	139 (4900)	125 (4400)	105 (3720)	
Maximum Air Cleaner Restriction, kPa (in. H₂O)	6.2 (25)			
Alternator Cooling Air, m³/min (cfm)		246 (8700)		
Exhaust				
Exhaust Gas Flow at Set Rated Load, m³/min (cfm)	320 (11300)	295 (10420)	249 (8800)	
Exhaust Gas Temperature, °C (°F)	477 (890)	452 (845)	410 (770)	
Maximum Exhaust Back Pressure, kPa (in. H₂O)		6.7 (27)		

Fan Load, KVM _m (HP)	Standard Set-Mounted Radiator Cooling	Standby Rating	Prime Rating	Continuous Rating		
Coolant Capacity (with Radiator), L (US Gal.) 1586 (56000) 1586 (56000) 1586 (56000) 1586 (56000) 1586 (56000) 15014 Heat Rejection, Mymin (BTU/min) 78.4 (74300) 66.8 (63350) 57.6 (54625) Maximum Cooling Air Flow Static Restriction, kPa (in. H2O) 0.12 (0.5) Maximum Fuel Return Line Restriction, kPa (in. H2O) 23.7 (7)	Ambient Design, °C (°F)	40 (104)				
Cooling System Air Flow, m²/min (scfm) 1586 (56000) 70.14 leaft Rejection, M./min (BTU/min) 78.4 (74300) 66.8 (63350) 57.6 (54625) Maximum Fuel Return Line Restriction, kPa (in. H2O) 0.12 (0.5) Maximum Fuel Return Line Restriction, kPa (in. Hg) 23.7 (7)	Fan Load, KW _m (HP)					
Total Heat Rejection, MJ/min (BTU/min) 78.4 (74300) 66.8 (63350) 57.6 (54625)	Coolant Capacity (with Radiator), L (US Gal.)		()			
Total Heat Rejection, MJ/min (BTU/min) 78.4 (74300) 66.8 (63350) 57.6 (54625)	Cooling System Air Flow, m³/min (scfm)	, ,				
Maximum Fuel Return Line Restriction, kPa (in. Hg) 23.7 (7)	Total Heat Rejection, MJ/min (BTU/min)	78.4 (74300) 66.8 (63350) 57.6 (54625)				
Optional Set-Mounted Radiator Cooling	Maximum Cooling Air Flow Static Restriction, kPa (in. H2O)		0.12 (0.5)			
Ambient Design, "C (F) 50 (122) Fan Load, kWm (HP) 33.6 (45) Coolant Capacity (with radiator), L (US Gal.) 492 (130) Cooling System Air Flow, m²/min (scfm) 1869 (66000) Total Heat Rejection, M./min (BTU/min) 78.4 (74300) 66.8 (63350) 57.6 (54625) Maximum Cooling Air Flow Static Restriction, kPa (in. H2O) 0.12 (0.5) Maximum Fuel Return Line Restriction, kPa (in. Hg) 23.7 (7) Optional Heat Exchanger Cooling Set Coolant Capacity, L (US Gal.) 454 (120) Heat Rejected, Jacket Water Circuit, M./min (BTU/min) 34 (31950) 27 (25850) 25 (23400) Heat Rejected, Jacket Water Circuit, M./min (BTU/min) 25.3 (24000) 21.9 (20800) 16.8 (15900) Heat Rejected, Fuel Circuit, M./min (BTU/min) 25.3 (24000) 21.9 (20800) 16.8 (15900) Heat Rejected, Fuel Circuit, M./min (BTU/min) 17.2 (16350) 15.5 (14700) 14.1 (13325) Maximum Raw Water Pressure, Jacket Water Circuit, kPa (psi) 1034 (150) Maximum Raw Water Pressure, Aftercooler Circuit, kPa (psi) 1034 (150) Maximum Raw Water Pressure, Fuel Circuit, kPa (psi) 1034 (150) Maximum Raw Water Flow, Jacket Water Circuit, L/min (US Gal/min) 1363 (360) Maximum Raw Water Flow, Eucl Circuit, L/min (US Gal/min) 144 (38) Minimum Raw Water Flow @ 27 °C (80 °F) Inlet Temp, Jacket Water Circuit, L/min (US Gal/min) 144 (38) Minimum Raw Water Flow @ 27 °C (80 °F) Inlet Temp, Jacket Water Circuit, L/min (US Gal/min) 144 (38) Minimum Raw Water Flow @ 27 °C (80 °F) Inlet Temp, Jacket Water Circuit, L/min (US Gal/min) 144 (38) Minimum Raw Water Flow @ 27 °C (80 °F) Inlet Temp, Fuel Circuit, L/min (US Gal/min) 144 (38) Minimum Raw Water Flow @ 27 °C (80 °F) Inlet Temp, Fuel Circuit, L/min (US Gal/min) 146 (110) Raw Water Delta P @ Min Flow, After-cooler Circuit, kPa (psi) 4.1 (0.6) Raw Water Delta P @ Min Flow, After-cooler Circuit, kPa (psi) 4.1 (0.6) Raw Water Delta P @ Min Flow, After-cooler Circuit, kPa (psi) 4.1 (0.6) Raw Water Delta P @ Min Flow, After-cooler Circuit, kPa (psi) 4.2 (0.7) Maximum Jacket Water Cutet Temp, °C (°F) 4.10 (212) 4.10 (212) 4.10 (212)	Maximum Fuel Return Line Restriction, kPa (in. Hg)		23.7 (7)			
Fan Load, kWm (HP) Coolant Capacity (with radiator), L (US Gal.) Cooling System Air Flow, m³/min (scfm) Total Heat Rejection, MJ/min (BTU/min) Maximum Cooling Air Flow Static Restriction, kPa (in. H2O) Maximum Fuel Return Line Restriction, kPa (in. H2O) Optional Heat Exchanger Cooling Set Coolant Capacity, L (US Gal.) Heat Rejected, Jacket Water Circuit, MJ/min (BTU/min) Heat Rejected, Jacket Water Circuit, MJ/min (BTU/min) Total Heat Radiated to Room, MJ/min (BTU/min) Total Heat Rejected, Jacket Water Circuit, kPa (psi) Maximum Raw Water Pressure, Jacket Water Circuit, LPm (US Gal/min) Maximum Raw Water Flow, Jacket Water Circuit, L/min (US Gal/min) Maximum Raw Water Flow @ 27 C (80°F) Inlet Temp, Jacket Water Circuit, LPm (10°C) Total Heat Exchanger Alexander Research	Optional Set-Mounted Radiator Cooling					
Coolant Capacity (with radiator), L (US Gal.) 492 (130) Cooling System Air Flow, m³min (scfm) 1869 (66000) Total Heat Rejection, MJ/min (BTU/min) 78.4 (74300) 66.8 (63350) 57.6 (54625) Maximum Cooling Air Flow Static Restriction, kPa (in. H2O) 0.12 (0.5) Maximum Fuel Return Line Restriction, kPa (in. Hg) 23.7 (7) Cooling Air Flow Static Restriction, kPa (in. Hg) 23.7 (7) Cooling Air Flow Static Restriction, kPa (in. Hg) 23.7 (7) Cooling Air Flow Static Restriction, kPa (in. Hg) 23.7 (7) Cooling Air Flow Static Restriction, kPa (in. Hg) 23.7 (7) Cooling Air Flow Static Restriction, kPa (in. Hg) 23.7 (7) Cooling Air Flow Static Restriction, kPa (in. Hg) 23.7 (7) Cooling Air Flow Static Restriction, kPa (in. Hg) 23.7 (7) Cooling Air Flow Static Restriction, kPa (in. Hg) 23.7 (7) Cooling Restriction Res	Ambient Design, °C (°F)					
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Maximum Fuel Return Line Restriction, kPa (in. Hg) 23.7 (7)		78.4 (74300)	` '	57.6 (54625)		
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Set Coolant Capacity, L (US Gal.)	Maximum Fuel Return Line Restriction, kPa (in. Hg)		23.7 (7)			
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Maximum Raw Water Pressure, Fuel Circuit, kPa (psi) Maximum Raw Water Flow, Jacket Water Circuit, L/min (US Gal/min) Maximum Raw Water Flow, Aftercooler Circuit, L/min (US Gal/min) Maximum Raw Water Flow, Fuel Circuit, L/min (US Gal/min) Maximum Raw Water Flow, Fuel Circuit, L/min (US Gal/min) Minimum Raw Water Flow @ 27°C (80°F) Inlet Temp, Jacket Water Circuit, L/min (US Gal/min) Minimum Raw Water Flow @ 27°C (80°F) Inlet Temp, After-Cooler Circuit, L/min (US Gal/min) Minimum Raw Water Flow @ 27°C (80°F) Inlet Temp, Fuel Circuit, L/min (US Gal/min) Minimum Raw Water Flow @ 27°C (80°F) Inlet Temp, Fuel Circuit, L/min (US Gal/min) Raw Water Delta P @ Min Flow, Jacket Water Circuit, kPa (psi) Raw Water Delta P @ Min Flow, After-cooler Circuit, kPa (psi) Raw Water Delta P @ Min Flow, Fuel Circuit, kPa (psi) Maximum Jacket Water Outlet Temp, °C (°F) Maximum After-Cooler Inlet Temp, °C (°F)			1034 (150)			
Maximum Raw Water Flow, Jacket Water Circuit, L/min (US Gal/min) Maximum Raw Water Flow, Aftercooler Circuit, L/min (US Gal/min) Maximum Raw Water Flow, Fuel Circuit, L/min (US Gal/min) Minimum Raw Water Flow @ 27°C (80°F) Inlet Temp, Jacket Water Circuit, L/min (US Gal/min) Minimum Raw Water Flow @ 27°C (80°F) Inlet Temp, After-Cooler Circuit, L/min (US Gal/min) Minimum Raw Water Flow @ 27°C (80°F) Inlet Temp, After-Cooler Circuit, L/min (US Gal/min) Minimum Raw Water Flow @ 27°C (80°F) Inlet Temp, Fuel Circuit, L/min (US Gal/min) Raw Water Delta P @ Min Flow, Jacket Water Circuit, kPa (psi) Raw Water Delta P @ Min Flow, After-cooler Circuit, kPa (psi) Raw Water Delta P @ Min Flow, Fuel Circuit, kPa (psi) At (0.6) Raw Water Delta P @ Min Flow, Fuel Circuit, kPa (psi) Maximum Jacket Water Outlet Temp, °C (°F) Maximum After-Cooler Inlet Temp, °C (°F) Maximum After-Cooler Inlet Temp, °C (°F)						
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Circuit, L/min (US Gal/min) Minimum Raw Water Flow @ 27°C (80°F) Inlet Temp, After-Cooler Circuit, L/min (US Gal/min) Minimum Raw Water Flow @ 27°C (80°F) Inlet Temp, Fuel Circuit, L/min (US Gal/min) Raw Water Delta P @ Min Flow, Jacket Water Circuit, kPa (psi) Raw Water Delta P @ Min Flow, After-cooler Circuit, kPa (psi) Raw Water Delta P @ Min Flow, Fuel Circuit, kPa (psi) Raw Water Delta P @ Min Flow, Fuel Circuit, kPa (psi) Maximum Jacket Water Outlet Temp, °C (°F) Maximum After-Cooler Inlet Temp, °C (°F)	Maximum Raw Water Flow, Fuel Circuit, L/min (US Gal/min)	144 (38)				
Minimum Raw Water Flow @ 27°C (80°F) Inlet Temp, After-Cooler Circuit, L/min (US Gal/min) Minimum Raw Water Flow @ 27°C (80°F) Inlet Temp, Fuel Circuit, L/min (US Gal/min) Raw Water Delta P @ Min Flow, Jacket Water Circuit, kPa (psi) Raw Water Delta P @ Min Flow, After-cooler Circuit, kPa (psi) Raw Water Delta P @ Min Flow, Fuel Circuit, kPa (psi) Raw Water Delta P @ Min Flow, Fuel Circuit, kPa (psi) Maximum Jacket Water Outlet Temp, °C (°F) Maximum After-Cooler Inlet Temp, °C (°F)		288 (76)				
Minimum Raw Water Flow @ 27°C (80°F) Inlet Temp, Fuel Circuit, L/min (US Gal/min) Raw Water Delta P @ Min Flow, Jacket Water Circuit, kPa (psi) Raw Water Delta P @ Min Flow, After-cooler Circuit, kPa (psi) Raw Water Delta P @ Min Flow, Fuel Circuit, kPa (psi) A.1 (0.6) Raw Water Delta P @ Min Flow, Fuel Circuit, kPa (psi) Maximum Jacket Water Outlet Temp, °C (°F) Maximum After-Cooler Inlet Temp, °C (°F) 66 (150)	Minimum Raw Water Flow @ 27°C (80°F) Inlet Temp, After-Cooler	416 (110)				
Raw Water Delta P @ Min Flow, Jacket Water Circuit, kPa (psi) Raw Water Delta P @ Min Flow, After-cooler Circuit, kPa (psi) Raw Water Delta P @ Min Flow, Fuel Circuit, kPa (psi) A.1 (0.6) Raw Water Delta P @ Min Flow, Fuel Circuit, kPa (psi) Maximum Jacket Water Outlet Temp, °C (°F) Maximum After-Cooler Inlet Temp, °C (°F) 66 (150)	Minimum Raw Water Flow @ 27°C (80°F) Inlet Temp, Fuel Circuit,	38 (10)				
Raw Water Delta P @ Min Flow, After-cooler Circuit, kPa (psi) 4.1 (0.6) Raw Water Delta P @ Min Flow, Fuel Circuit, kPa (psi) 4.8 (0.7) Maximum Jacket Water Outlet Temp, °C (°F) 104 (220) 100 (212) 100 (212) Maximum After-Cooler Inlet Temp, °C (°F) 66 (150)		2.4 (0.35)				
Raw Water Delta P @ Min Flow, Fuel Circuit, kPa (psi) 4.8 (0.7) Maximum Jacket Water Outlet Temp, °C (°F) 104 (220) 100 (212) 100 (212) Maximum After-Cooler Inlet Temp, °C (°F) 66 (150)		` ,				
Maximum Jacket Water Outlet Temp, °C (°F) 104 (220) 100 (212) 100 (212) Maximum After-Cooler Inlet Temp, °C (°F) 66 (150)						
Maximum After-Cooler Inlet Temp, °C (°F) 66 (150)		104 (220)		100 (212)		
		(- /		` '		
Maximum Fuel Return Line Restriction, kPa (in. Hg) 23.7 (7)	Maximum Fuel Return Line Restriction, kPa (in. Hg)		· · · · · · · · · · · · · · · · · · ·			

	Standby	Prime	Continuous	
Optional Remote Radiator Cooling ¹	Rating	Rating	Rating	
Set Coolant Capacity, L (US Gal.)		193 (51)		
Max Flow Rate @ Max Friction Head, Jacket Water Circuit, L/min (US Gal/min)	1438 (380)			
Max Flow Rate @ Max Friction Head, Aftercooler Circuit, L/min (US Gal/min)		413 (109)		
Heat Rejected, Jacket Water Circuit, MJ/min (BTU/min)	34 (31950)	27 (25850)	25 (23400)	
Heat Rejected, Aftercooler Circuit, MJ/min (BTU/min)	25 (24000)	22 (20800)	17 (15900)	
Heat Rejected, Fuel Circuit, MJ/min (BTU/min))	2.1 (2000)			
Total Heat Radiated to Room, MJ/min (BTU/min)	17.2 (16350)	15.5 (14700)	14.1 (13325)	
Maximum Friction Head, Jacket Water Circuit, kPa (psi)		69 (10)		
Maximum Friction Head, Aftercooler Circuit, kPa (psi)		34 (5)		
Maximum Static Head, Jacket Water Circuit, m (ft)	18 (60)			
Maximum Static Head, Aftercooler Circuit, m (ft)		18 (60)		
Maximum Jacket Water Outlet Temp, °C (°F)	104 (220)	100 (212)	100 (212)	
Maximum After-Cooler Inlet Temp, °C (°F)	66 (150)			
Maximum Fuel Flow, L/hr (US gph)	1893 (500)			
Maximum Fuel Return Line Restriction, kPa (in. Hg)		30.5 (9)		

Weights ²	
Unit Dry Weight kgs (lbs.)	14649 (32296)
Unit Wet Weight kgs (lbs.)	15152 (33405)

Notes:

- For non-standard remote installations contact your local Cummins Power Generation representative Note: Weights represent a set with standard features. See outline drawing for weights of other configurations

Derating Factors						
Standby	Engine power available up to 1000 m (3280 ft) at ambient temperatures up to 40°C (104°F), and up to 305 m (1000 ft) at 50°C (122°F). Above these elevations, derate at 3.3% per 305 m (1000 ft). Above 50°C (122°F) and 3000 m (9843 ft), derate an additional 3.3% per 305 m (1000 ft) and 15% per 10°C (18°F).					
Prime	up to 305 m (1000 ft) at 50°C (122 ft). Above 50°C (122°F) and 3000 ft 15% per 10°C (18°F).	Engine power available up to 1000 m (3280 ft) at ambient temperatures up to 40°C (104°F), and up to 305 m (1000 ft) at 50°C (122°F). Above these elevations, derate at 3.3% per 305 m (1000 ft). Above 50°C (122°F) and 3000 m (9843 ft), derate an additional 3.3% per 305 m (1000 ft) and				
Continuous	Engine power available up to 800 m (2625 ft) at ambient temperatures up to 40°C (104°F).					
Ratings Definitions	S					
Standby:		Prime (Unlimited Running Time):	Base Load (Continuous):			
normal power interruption is available for this rating installations served by a rating is only applicable to load factor of 80 percent of 200 hours of operation hours per year at 100% or rating is only applicable to applications where the gothen normal utility source, operation is permitted with	emergency power for the duration of n. No sustained overload capability g. This rating is applicable to reliable normal utility source. This to variable loads with an average of the standby rating for a maximum in per year and a maximum of 25 of its standby rating. The standby to emergency and standby enerator set serves as the back up to No sustained utility parallel ith this rating. (Equivalent to Fuel ce with ISO3046, AS2789, DIN6271 Rated	Applicable for supplying power in lieu of commercially purchased power. Prime power is the maximum power available at a variable load for an unlimited number of hours. A 10% overload capability is available for limited time. (Equivalent to Prime Power in accordance with ISO8528 and Overload Power in accordance with ISO3046, AS2789, DIN6271, and BS5514). This rating is not applicable to all generator set models.	Applicable for supplying power continuously to a constant load up to the full output rating for unlimited hours. No sustained overload capability is available for this rating. Consult authorized distributor for rating. (Equivalent to Continuous Power in accordance with ISO8528, ISO3046, AS2789, DIN6271, and BS5514). This rating is not applicable to all generator set models.			

				Single		Winding		
		Temp Rise		Phase	Max Surge	No.	Alternator	Feature
Voltage	Connection ¹	Degrees C	Duty ²	Factor ³	kVA⁴		Data Sheet	Code
380-440	Wye, 3 Phase	150/125/105	S/P/C	N/A	5000	312	ADS-334	B615
380-440	Wye, 3 Phase	125/105/80	S/P/C	N/A	5280	312	ADS-335	B614
380-440	Wye, 3 Phase	80	С	N/A	4563	312	ADS-333	B632
380-440	Wye, 3 Phase	105/80	S/P	N/A	6716	12	ADS-516	B361
380-440	Wye, 3 Phase	105	S	N/A	5821	12	ADS-515	B364
380-440	Wye, 3 Phase	80	S	N/A	6716	12	ADS-516	B633
380	Wye, 3 Phase	105	Р	N/A	5000	312	ADS-334	B630
400-415	Wye, 3 Phase	125/105	S/P	N/A	5000	312	ADS-334	B636
400-415	Wye, 3 Phase	125	Р	N/A	4563	312	ADS-333	B635
400-440	Wye, 3 Phase	105	С	N/A	3960	312	ADS-332	B639
400-415	Wye, 3 Phase	80	Р	N/A	5280	312	ADS-335	B634
440	Wye, 3 Phase	105	Р	N/A	5000	312	ADS-334	B658
3300	Wye, 3 Phase	105/80	S/P	N/A	5506	51	ADS-518	B373
3300	Wye, 3 Phase	80	S	N/A	5506	51	ADS-518	B620
3300	Wye, 3 Phase	80	С	N/A	5398	51	ADS-323	B640
3300	Wye, 3 Phase	105	С	N/A	4922	51	ADS-322	B471
6300-6600	Wye, 3 Phase	125/105/80	S/P/C	N/A	5309	61	ADS-521	B641
6300	Wye, 3 Phase	105	S	N/A	5309	61	ADS-521	B644
6300	Wye, 3 Phase	80	Р	N/A	6086	61	ADS-522	B645
6300-6600	Wye, 3 Phase	80	S	N/A	6086	61	ADS-522	B642
6600	Wye, 3 Phase	105/80	S/P	N/A	5309	61	ADS-521	B622
11000	Wye, 3 Phase	125/105/80	S/P/C	N/A	5222	83	ADS-521	B648
11000	Wye, 3 Phase	105/80	S/P	N/A	5222	83	ADS-521	B647
11000	Wye, 3 Phase	80	S	N/A	5901	83	ADS-522	B624

Notes:

- Limited single phase capability is available from some three phase rated configurations. To obtain single phase rating, multipy the three phase kW rating by the Single Phase Factor³. All single phase ratings are at unity power factor.
- 2. Standby (S), Prime (P) and (C) Continuous ratings.
- 3. Factor for the Single Phase Output from Three Phase Alternator formula listed below.
- 4. Maximum rated starting kVA that results in a minimum of 90% of rated sustained voltage during starting.

Formulas for calculating full load currents:

Three Phase Output	Single Phase Output
kWx1000	kWxSinglePhaseFactorx1000
Voltagex1.73x0.8	Voltage



See your distributor for more information.

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Important: Back feed to a utility system can cause electrocution and/or property damage. Do not connect to any building's electrical system except through an approved device or after building main switch is open.

Generator Set Data Sheet

Specifications May Change Without Notice

Cummins Power Generation **D-3223d (6/04)**